

PATENT SPECIFICATION



Convention Date (Germany) : Dec. 11, 1933.

439,916

Application Date (in United Kingdom) : Dec. 11, 1934. No. 35526/34.

Complete Specification Accepted : Dec. 17, 1935.

COMPLETE SPECIFICATION

Shearing Head for Hair Cutting Apparatuses, and in particular for Dry Shaving Apparatuses

I, LOUIS PETER, of 23, Chemin des Promenades, Biel, Switzerland, formerly of Zug, Switzerland, a Swiss Citizen, do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement:—

This invention relates to that kind of hair cutting or dry shaving device wherein a hollow, externally cylindrical slide part provided with alternately arranged lateral shearing bars and slots is reciprocated axially inside a hollow, internally cylindrical guard part which is also provided with alternately arranged lateral shearing bars and slots, the said teeth cooperating to shear the hair entering the slots of the guard part and slide 10 part as the device is passed over the skin.

Previous to my invention it has been proposed to form the slide or the slide and guard of sheet metal bent into a split cylindrical form.

According to my invention the said slide part is prevented from rotating in the guard part of the device by means of a projection on the one part engaging a slot in the other part.

In one form of the said device there is an axial slot in the one part adapted to be slidably engaged by stud-like projections on the other part.

In another form of the said device there is a lug on the one part adapted to engage a groove in the other part.

In a further form of the said device the one part has a U-shaped member which is slidable in slots in the flanges of a 40 U-shaped member possessed by the other part.

Where the said U-shaped members are employed, the said bars and slots are provided in cylinder segmental pieces of thin sheet metal, the one piece being removably held in apertures provided in the said flanges and the other piece being removably held on the ends of flanges forming part of the first named U-shaped 45 member.

The invention is illustrated by means of constructional examples in the accompanying drawings, wherein:—

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Figure 1 is a perspective view of the first constructional example, and 55

Figure 2 is a view in cross section through the assembled shearing parts.

Figure 3 is a view in cross-section and illustrates another constructional example. 60

Figure 4 is an elevation of a third constructional example,

Figure 5 is a cross section on line I-I of Figure 4, 65

Figure 6 is a cross section through the stationary shearing part on line II-II of Figure 4, and

Figure 7 is an end view of the movable shearing part.

According to the first constructional example in accordance with Figures 1 to 3, 1 is a stationary, internally cylindrical guard in which there is an externally cylindrical slide 2 which is guided by means of a slot 7 engaged by screw-in studs 6 to slide to and fro therein. Lateral, curved shearing bars 3 are formed in the guard 1 by milling slots 4 in the peripheral wall of the said part. The slide 2 has shearing bars 8 and slots 9. These extend laterally to the direction of movement and are curved. At least one end of the hollow cylindrical slide 2 has a comparatively large aperture 10 so that the cut hairs arriving in the slide 2 can without difficulty fall out of it again. The mounting and driving of the device can take place in any suitable manner and forms no part of this invention. 70

According to Figure 3 the slide has a lug 11 at its under side which is guided in a corresponding groove 12 arranged longitudinally in the guard. 75

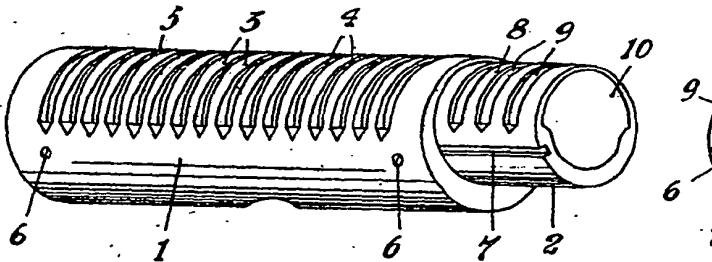
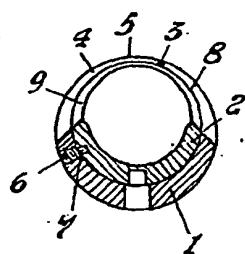
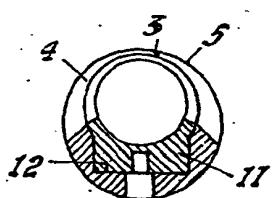
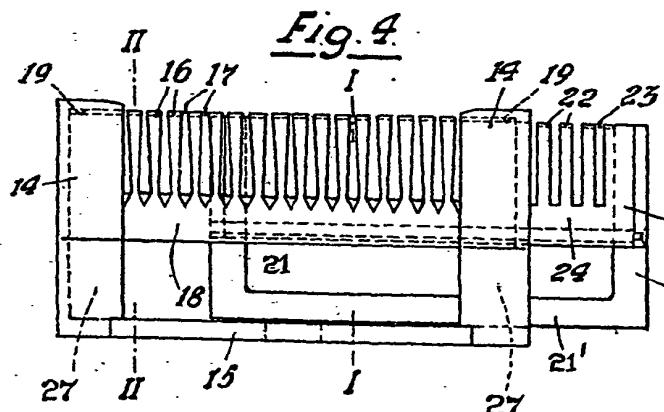
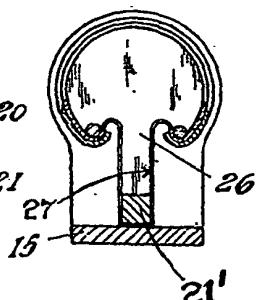
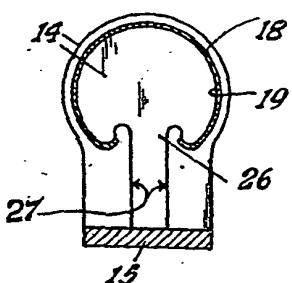
According to the constructional example in accordance with Figures 4 to 7, there is a U-shaped member comprising a bar 15 and flanges 14 the latter having holes 19 in which the ends of a curved sheet steel segment 18 are removably mounted. The segment 18 is provided with shearing bars 16 and slots 17 and is replaceable by a similar segment when the said bars have become blunt. The segment ends are compressed in the apertures 19 and the segment is therefore 100 held in a state of compression. The said 105

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- U-shaped member and segment 18 form together the guard part of the device. There is also a U-shaped member comprising a bar 21' and flanges 21 over the flanges 21 of which there is stretched a circularly curved sheet steel segment 24 provided with shearing bars 22 and slots 23. The whole can be slid into the said guard part and is prevented from rotation by engagement of the flanges 21 and the ends of the bar 21' with slots 27 provided in the flanges 14. 25 is an aperture in the one end which is however not absolutely essential because the cut hair can fall out downwardly at 26 due to the curved sheet steel pieces not forming closed cylinders as in the first two constructional examples.
- Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—
1. A hair cutting or dry shaving device of the hereinbefore specified kind, wherein the slide part is prevented from rotating in the guard part by means of a projection on the one part engaging a slot in the other part.
 2. A hair cutting or dry shaving device according to claim 1, wherein there is an axial slot in the one part adapted to be slidably engaged by stud-like projections on the other part.
3. A hair cutting or dry shaving device according to claim 1, wherein there is a lug on the one part adapted to engage a groove in the other part. 35
4. A hair cutting or dry shaving device according to claim 1, wherein the one part has a U-shaped member which is slidable in slots in the flanges of a U-shaped member possessed by the other part. 40
5. A hair cutting or dry shaving device according to claim 4, wherein the shearing bars and slots are provided in cylinder segmental pieces of thin sheet metal the one piece being removably held in apertures provided in the said flanges and the other piece being removably held on the ends of flanges forming part of the first named U-shaped member. 45
6. The improved hair cutting or dry shaving device substantially as hereinbefore described with reference to the accompanying drawings. 50
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Dated this 10th day of December, 1934.

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Fig. 1.Fig. 2.Fig. 3.Fig. 4.Fig. 5.Fig. 6.Fig. 7.